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ASSISTANT SUPERINTENDENT OF
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DATE: December 23, 2016

TO: Board of Trustees, and Dr. Karen Janney, Superintendent

FROM: Moisés G. Aguirre, Assistant Superintendent of Facilities & Operations

RE: Construction Report Timelines

At the May 24, 2016, meeting of the Board of Trustees, there was a request for an update regarding the length of time that reports such as geotechnical reports are valid.

In construction there are many reports required of public agencies, such as school districts. Attached is a checklist developed by the California Geological Survey (Note 48) that contains a listing of the various reports required of our district during construction projects.

In addition to these requirements, there are also Division of the State Architect (DSA) requirements. Approved design plans by the DSA have a life of three (3) years. Further, if this timeline lapses, design plans may be resubmitted so long as the appropriate fees are paid. For more information on DSA processes, here is a link to the website: http://www.dgs.ca.gov/dsa/Home.aspx

The geological reports, along with Environmental Health and Safety Reports, such as hazardous materials (Hazmat) reports, and Asbestos Hazard Emergency Response Act (AHERA), do not necessarily have a time limit.

However, if there is a significant time lapse between the issuance of the report and a particular construction project, it is suggested by staff that a specialist provide an update to the reports regarding findings since there is a constant change in state requirements and updates to building codes and regulations. This would assume there is no change in environmental and/or material changes to the soil or the building structure.

Reports may include Master Plan Updating, since the revision of these plans would allow for revisions due to funding timelines (e.g. associated with state bond funding), educational program changes, and/or changes to the use of technology in a way that impact facility needs.

In conclusion, design plans approved by the DSA have a timeline of three years. Additional reports do not fall under a particularly set timeline, however, it is prudent to update other reports, such as geotechnical reports to reflect other changes that may have occurred between time of issuing the report, and construction.

As a side note, staff is anticipating that current stormwater regulations will likely create a new mandate for percolation testing for school site improvements, thus adding an additional report that staff will likely need to conduct on future projects.

If you have any questions, please feel free to contact me at: moises.aguirre@sweetwaterschools.org.



California Geological Survey - Note 48

Checklist for the Review of Engineering Geology and Seismology Reports for California Public Schools, Hospitals, and Essential Services Buildings
October 2013

Note 48 is used by the California Geological Survey (CGS) to review the geology, seismology, and geologic hazards evaluated in reports that are prepared under California Code of Regulations (CCR), Title 24, California Building Code (2013 CBC). CCR Title 24 applies to California Public Schools, Hospitals, Skilled Nursing Facilities, and Essential Services Buildings. The Building Official for public schools is the Division of the State Architect (DSA). Hospitals and Skilled Nursing Facilities in California are under the jurisdiction of the Office of Statewide Health Planning & Development (OSHPD). The California Geological Survey serves as an advisor under contract with these two state agencies.

Project Name:		Location:		
OSHPD or DSA File #:				
Date Reviewed: California Certified Engineering C			Geologist#:	
Checklist Item or Topic Within Consulting Repo		•	Adequately Described;	Additional Information
NA = not applicable NR = not addressed by consultant and therefore not reviewed at this time			Satisfactory	Needed
Project Location				
1.	Site Location Map, Street Address, County Name: Correctly plot site on a 7½-minute USGS quadrangle base-map.			
2.	Plot Plan with Exploration Data and Building Footprint: One boring or exploration shaft per 5000 ft², with minimum of two for any one building. Exploratory trench locations.			
3.	Site Coordinates: Latitude & Longitude			
Engineering Geology/Site Characterization				
4.	Regional Geology and Regional Fault Maps: Cor			
5.	Geologic Map of Site: Detailed (large-scale) geologic m	ap with proper symbols and geologic legend.		
6.	Subsurface Geology: Engineering geologic description Summarize ground water conditions.	summarized from boreholes or trench logs.		
7.	Geologic Cross Sections: Two or more detailed geologite grading.	gic sections with pertinent foundations and		
8.	Active Faulting & Coseismic Deformation Across to Alquist-Priolo Earthquake Fault Zones and/or any potentic Safety Element of the local agency (city or county); show local setbacks perpendicular from fault plane and proposed building	al fault rupture hazard identified from the cation of fault investigation trenches, 50-foot		
9.	Geologic Hazard Zones (Liquefaction & Landslic in relation to CGS official map showing zones of required inve any pertinent geologic hazard map from the Safety Element of	stigation for liquefaction and landslide, and/or		
10.	Geotechnical Testing of Representative Samples: Broad suite of appropriate geotechnical tests.			
11.	Consideration of Geology in Geotechnical Engin engineering geologic aspects of excavation/grading/fill activi Include geologic and geotechnical inspections and problems and construction provisions for bearing capacity failure and/ or expansive soils. Consideration of seismic compression of	ities, foundation and support of structures. s anticipated during grading. Special design or footings or foundations founded on weak		
Seismology & Calculation of Earthquake Ground Motion				
12.	Evaluation of Historical Seismicity: Prepare a short of have affected the site.	description of how historical earthquakes		
	Classify the Geologic Subgrade (Site Class): ASC			
14.	General Procedure Ground Motion Analysis: Foll S ₁ , S _{DS} and S _{D1} . Recommended method for establishing mahttp://geohazards.usgs.gov/designmaps/us/application.php.	ap values found at:		
15.	Seismic Design Category: Report if S ₁ > 0.75			
16.	Site-Specific Ground Motion Analysis: (If applicable E or F (CBC §1616A.1.3), and where required by ASCE 7 §11 CGS suggests a table showing: (a) 2%-in-50-years probabilist ASCE 7 §21.2.1.1, Method 1), (c) probabilistic MCE _R , (d) 84% lower limit, (f) site-specific MCE _R , (ASCE 7 §21.2.3), (g) 80% (h) design response spectrum (ASCE 7 §21.3). Also provide	I.4.7. See requirements in CBC §1803A.6. tic spectrum, (b) risk coefficients (if using deterministic spectrum, (e) deterministic of map-based General Response Spectrum,		